



MiniVol LFR Sampler

The MiniVol LFR (Low Flow Research) Sampler is the newest generation of the Airmetrics MiniVol, with improved accuracy and data logging for air quality researchers. The MiniVol LFR is a portable, rapidly deployable, battery-powered particulate sampling device. It utilizes FRM-style impactors for improved accuracy at 6 LPM and requires no grease or oil for low maintenance use. The compact-sized sampler can be configured to collect 24-hour TSP, PM10, or PM2.5 filter samples and can simultaneously measure and log all real-time sampling parameters, meteorological data, and particulate counts.

The MiniVol LFR Sampler can be equipped with an optional PEET anemometer and is capable of operating in directional sampling mode. It can also be equipped with a Plantower light scattering sensor to log temporal particulate variations. All sampling parameters, meteorological data, and particulate data are logged at 5-minute intervals and can easily be accessed via USB flash drive.

[100-000-T6-2](#) PM2.5 MiniVol LFR Sampler

[100-000-T6-1](#) PM10 MiniVol LFR Sampler

[100-000-T6-0](#) TSP MiniVol LFR Sampler

Specifications

Nominal Flow: 6 LPM

Flow Range: 3-10 LPM

Flow Accuracy: +/-2% Flow

Precision: +/-2%

Li-Ion Batteries: 18V /5Ah

Recharge Time: 1-Hour

Battery Operation: 30+ hrs

Data Output: USB Flash Drive

Dimensions: 10" x 12" x 7"

Sampler Weight: 15 LBS

Shipping Weight: 25 LBS



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New Features

DATA LOGGING

All sampling parameters are logged at 5-minute averages and data files can easily be retrieved in the field via USB flash drive. If there are any issues during sampling, the data file will display error codes to easily troubleshoot problems.

PROGRAMMING

The MiniVol LFR features an LCD screen and intuitive user interface. The sampler is easy to program and sampling data can easily be accessed.

FRM-STYLE INLETS

The MiniVol LFR utilizes FRM-style inlets, which reduce internal losses and improve accuracy. The inlets are low maintenance and require no grease or oil.

OPTIONAL ACCESSORIES

RTP Profiler - Real-time particulate sensor for PM10/PM2.5.

Meteorological Sensor - Collects wind speed and wind direction data at 5-minute averages. The meteorological sensor is also capable of directional sampling, enabling the pump to turn on only when wind is blowing from a user-defined direction.

Solar Panel System - Improved battery life for off-grid use.

